# PATENT COOPERATION TREAT

# PCT

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

	Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220
	WO72122PPC		l as, where applicable, item 5 below.
	International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
	PCT/GB2004/002179	19/05/2004	23/05/2003
	Applicant		
	ORTUS MEDICAL LIMITED		
	This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searching Authonsmitted to the International Bureau.	nority and is transmitted to the applicant
	This International Search Report consists of	of a total of5 sheets.	
	X It is also accompanied by a	a copy of each prior art document cited in this	report.
	Basis of the report     a. With regard to the language, the ir language in which it was filed, unle	nternational search was carried out on the bas ess otherwise indicated under this item.	is of the international application in the
	The international s this Authority (Rule	earch was carried out on the basis of a translate 23.1(b)).	tion of the international application furnished to
	b. With regard to any nucleon	tide and/or amino acid sequence disclosed i	n the international application, see Box No. I.
	2. Certain claims were foun	d unsearchable (See Box II).	•
	3. Unity of invention is lacki	ing (see Box III).	·
	4. With regard to the title,		
	the text is approved as sub	mitted by the applicant.	
	l <u>= </u>	ed by this Authority to read as follows:	
(	IMPROVED CALCIUM PHOSE	PHATE BONE CEMENTS	
7			
	5. With regard to the abstract,		
	X the text is approved as subn	nitted by the applicant.	
	the text has been establishe may, within one month from	ed, according to Rule 38.2(b), by this Authority the date of mailing of this international search	as it appears in Box No. IV. The applicant report, submit comments to this Authority.
	6. With regards to the drawings,		
-		olished with the abstract is Figure No1_	
	as suggested by the		
	X as selected by this A	Authority, because the applicant failed to sugge	est a figure.
-		Authority, because this figure better characteriz	es the invention.
L	b none of the figures is to be p	ublished with the abstract.	

#### INTERNATIONAL SEARCH REPORT

rnational Application No PCT/GB2004/002179

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61L24/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 A61L A61F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, COMPENDEX, EMBASE, BIOSIS, PAJ, WPI Data

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 425 949 B1 (VAN LANDUYT PASCALE ET AL) 30 July 2002 (2002-07-30)  column 3, line 27 - line 42 example 1 claim 8	1-5,8, 10-25, 27-30
X	GBURECK U ET AL: "Surface properties of calcium phosphate particles for self setting bone cements" BIOMOLECULAR ENGINEERING, ELSEVIER, NEW YORK, NY, US, vol. 19, no. 2-6, August 2002 (2002-08), pages 51-55, XP004378070 ISSN: 1389-0344 the whole document page 51, right-hand column	1,2, 10-20, 29,30
	<del></del>	

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents :	
"A" document defining the general state of the art which is not considered to be of particular relevance  "E" earlier document but published on or after the international filling date  "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other means  "P" document published prior to the international filling date but later than the priority date claimed	<ul> <li>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>"&amp;" document member of the same patent family</li> </ul>
Date of the actual completion of the international search	Date of mailing of the international search report
20 October 2004	05/11/2004
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Hars, J



# INTERNATIONAL SEARCH REPORT

ernational Application No PCT/GB2004/002179

0.10	Allah DOGUMENTO CONORDA	PCT/GB2004/002179		
Category °	ation) DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
X	BOHNER M ET AL: "EFFECTS OF SULFATE, PYROPHOSPHATE, AND CITRATE IONS ON THE PHYSICOCHEMICAL PROPERTIES OF CEMENTS MADE OF BETA-TRICALCIUM PHOSPHATE-PHOSPHORIC ACID-WATER MIXTURES"  JOURNAL OF THE AMERICAN CERAMIC SOCIETY, AMERICAN CERAMIC SOCIETY. COLUMBUS, US, vol. 79, no. 6, 1 June 1996 (1996-06-01), pages 1427-1434, XP000596067 ISSN: 0002-7820 figure 9	21-25, 27,28		
	OTSUKA M ET AL: "PARTICLE SIZE EFFECT OF METASTABLE CALCIUM PHOSPHATES ON CRUSHING STRENGTH OF SELF-SETTING BIOACTIVE CALCIUM PHOSPHATE CEMENT" CHEMICAL AND PHARMACEUTICAL BULLETIN, PHARMACEUTICAL SOCIETY OF JAPAN. TOKYO, JP, vol. 41, no. 11, 1 November 1993 (1993-11-01), pages 2055-2057, XP009001135 ISSN: 0009-2363 figure 5; table II	29		
, X	GBURECK U ET AL: "Ionic modification of calcium phosphate cement viscosity. Part I: hypodermic injection and strength improvement of apatite cement" BIOMATERIALS, ELSEVIER SCIENCE PUBLISHERS BV., BARKING, GB, vol. 25, no. 11, 6 November 2003 (2003-11-06), pages 2187-2195, XP004485137 ISSN: 0142-9612 Online publication date the whole document	1-30		
X	BARRALET J E ET AL: "Ionic modification of calcium phosphate cement viscosity. Part II: hypodermic injection and strength improvement of brushite cement" BIOMATERIALS, ELSEVIER SCIENCE PUBLISHERS BV., BARKING, GB, vol. 25, no. 11, 19 November 2003 (2003-11-19), pages 2197-2203, XP004485138 ISSN: 0142-9612 Online publication date the whole document	1-30		
	,			

# INTF=NATIONAL SEARCH REPORT

rnational Application No PCT/GB2004/002179

_			2004/002179			
-		ation) DOCUMENTS CONSIDERED TO BE RELEVANT				
	Category °	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.		
	A	FERNANDEZ ENRIQUE ET AL: "Kinetic study of citric acid influence on calcium phosphate bone cements as water-reducing agent"  J. BIOMED. MATER. RES.; JOURNAL OF		1-30		
		BIOMEDICAL MATERIALS RÉSEARCH SEP 15 2002, vol. 61, no. 4, 15 September 2002 (2002-09-15), pages 653-659, XP002301639 cited in the application abstract figures 1,2 page 657, right-hand column, paragraph 2 paragraph 3				
A		DATABASE MEDLINE 'Online! US NATIONAL LIBRARY OF MEDICINE (NLM), BETHESDA, MD, US; March 2000 (2000-03), CHEN D: "'Physical properties of apatite bone cement!" XP002301640 Database accession no. NLM10879182 abstract & SHENG WU YI XUE GONG CHENG XUE ZA ZHI = JOURNAL OF BIOMEDICAL ENGINEERING = SHENGWU YIXUE GONGCHENGXUE ZAZHI. MAR 2000, vol. 17, no. 1, March 2000 (2000-03), pages 13-15 , 18, ISSN: 1001-5515		1-30		
T		DATABASE EMBASE 'Online! ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL; 2004, CHEN D-M ET AL: "Study on the mechanical properties of hydroxyapatite bone cement" XP002301641 Database accession no. EMB-2004217475 abstract & CHINESE JOURNAL OF CLINICAL REHABILITATION 2004 CHINA, vol. 8, no. 8, 2004, pages 1589-1591, ISSN: 1671-5926		1-30		
	CTUSARIO		·			

4

Form PCT/ISA/210 (continuation of second sheet) (January 2004)

### INTF-NATIONAL SEARCH REPORT

Information on patent family members

PCT/GB2004/002179

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 6425949	B1	30-07-2002	AT CA DE DE DK WO EP ES PT JP	211379 2306562 / 69803398   69803398   1023032   9917710 / 1023032 / 2170533   1023032   2001518359	D1 T2 T3 A1 A1	15-01-2002 15-04-1999 28-02-2002 26-09-2002 22-04-2002 15-04-1999 02-08-2000 01-08-2002 28-06-2002 16-10-2001



